BRING TEXTBOOK!!!

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Warmup 11/(Solution of
$$\frac{1}{7}x = 1$$
)

PAPER RETURNERS: RETURN ALL PAPERS! Then they can study the homework for the quiz! (You should be doing this every day!)

1. Create your own equation that has a solution of 5. Your equation should have variables on both sides.

2. Create your own equation that has a solution of ½.

ON THE BACK (AND in a different color):

 You must redo the ones you got wrong until you figure out how to get the right answer.

• If you got a 100% or when you have finished your corrections, you have permission to **float** around and help people! Take your worksheet with you so that you can help them better.

Equations Worksheet:

CHECK YOUR ANSWERS. Write the correct answer in a different color if you got it wrong!

14)
$$p = 7$$

15)
$$p = -10$$

20)
$$g = -4$$

16)
$$p = 8$$

17)
$$p = \frac{9}{8} \text{ or } 1\frac{1}{8}$$

18)
$$g = 5$$

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Equations with Distributive Property

Objective:

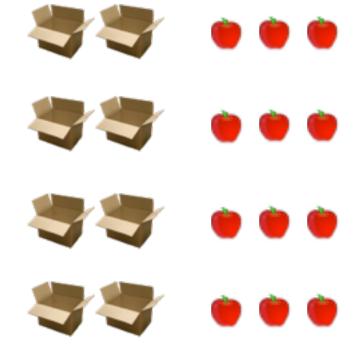
-Solve equations using the distributive property

A visual way to understand the distributive property:

$$4(2x + 3)$$

Q: How would I show it with boxes and apples?





(4 groups. Each group has 2x + 3.)

Distributive Property

• Distribute:

$$4(x-2)$$

$$4x - 8$$

$$3(4x + 1)$$

$$12x + 4$$

$$-2(3a - 4b + 7)$$

$$-6a + 8b - 14$$

For your notes:

Distribute and combine like terms:

$$-4(5a-3)+12a-8$$



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$$4(2n + 3) = 20$$

What does the (2n + 3) part have to equal????

From the pretest:

$$4(2n + 3) = 20$$

2 ways to solve:

$$\frac{4(2n + 3) = 20}{4}$$

$$4(2n + 3) = 20$$

$$8n + 12 = 20$$

$$2n + 3 = 5$$

$$-3 - 3$$

$$2n = 2$$

$$n = 1$$

$$4(2n + 3) = 20$$

$$8n + 12 = 20$$

$$-12 - 12$$

$$8n = 8$$

$$n = 1$$

For your notes:

$$6(3x-2)=24$$

1. Solve by distributing first:

$$6(3x-2) = 24$$

$$18x - 12 = 24$$

$$+ 12 + 12$$

$$18x = 36$$

$$18 \times 18$$

$$18x = 36$$

$$18 \times 18$$

2. Solve by dividing by 6 first:

$$3(x + 8) = 18$$

$$3x + 24 = 18$$
 $-24 - 24$

$$\frac{3x}{3} = -6$$

$$x = -3$$

$$-2(4x-1)=34$$

$$-8x+2=34$$

$$-2=34$$

$$\frac{-8x}{-8} = \frac{32}{8}$$

$$5(2x + 1) = 23$$

$$3(x-4)=x+8$$

$$15\left(\frac{2}{5}x+1\right)=6\left(\frac{2}{3}x+5\right)$$

$$10(3y-2)-20y=70$$

$$10-4(2x-9)=30$$

$$-x + 8 = \frac{x}{5}$$

Homework

• p. 157 (1, 2, 3)